

## GOVERNMENT OF ANDHRA PRADESH

### ABSTRACT

ITE&C Department – **e-Pragati** - AP State Enterprise Architecture - a Whole-of-Government Approach to e-Governance- Administrative & Financial sanction - Orders – Issued.

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### INFORMATION TECHNOLOGY, ELECTRONICS & COMMUNICATIONS DEPARTMENT (Portal Wing)

G.O.Ms.No. 19,

Dated:28 -09-2015

Read the following:

1. Publication of “**AP STATE ENTERPRISE ARCHITECTURE**” ... for a seamless information flow.
2. G.O.Ms.No.6 dated 27-03-2015 of ITE&C (Portal) Department
3. GO.Ms.24 dated: 8-12-2014 of ITE&C(Admn) Department.
4. U.O.No.219/2015 dated 9-9-2015 of GA(Cabinet) Department

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### ORDER:

#### Introduction

- i. **AP's lead in e-Governance:** The Government of Andhra Pradesh has always been at the forefront of leveraging information technology to provide services in an efficient and optimal manner through its various e-Governance initiatives and programs. Citizens and businesses, forming the core of a harmonious society are at the core of our planning and delivery of such services. Of late, the State has taken further pioneering steps by implementing projects such as CORE Dashboard, e-Cabinet, Mee Kosam, Mee Bhoomi, e-PoS and e-Pensions. Consequently, AP currently occupies the first position among all the States and Union Territories in India, in the delivery of e-Services, as per the real-time statistics given by the **e-Taal** portal of Government of India.

A number of e-Governance projects are in the pipeline, important among being the Comprehensive Financial Management System, Human Resource Management System and CCTNS (Police Dept).

At this stage of evolution of the e-Governance in AP, it is felt necessary for the State to make a pioneering effort by adopting a holistic approach, rather than several individual, disjointed efforts.

- ii. **Vision of IT Policy 2014:** The IT Policy, notified by the Government in 2014, lays down the following Vision, to be achieved by 2020:

*" To develop AP as an Innovation Society of global repute, with a focus on enhancing the quality of life of its citizens, through high quality education and healthcare, increased productivity in agriculture and allied activities, creation of requisite employment potential by promoting electronics and IT industries, and above all, by providing **Good Governance**."*

A sound framework for implementation of e-Governance in an integrated and holistic manner is essential for achieving the above Vision, especially Good Governance.

### iii. e-Pragati, the AP State Enterprise Architecture

With a view to create and adopt a holistic approach to the development of e-Governance, a framework of AP State Enterprise Architecture (APSEA) was designed in Aug 2014, adopting the global standards and best practices. In order to develop the detailed designs of the AP State Enterprise Architecture, M/s Wipro Technologies has been selected as the consultant, through a competitive bid process in January 2015. Two Groups have been constituted vide GO 2<sup>nd</sup> read above, to oversee the development of the EA - the Enterprise Architecture Design Group (EADG) headed by the IT Advisor, and the Enterprise Architecture Support Group (EADG) headed by the IT Secretary. The high-level design of APSEA has been completed. The initiative has been named as **e-Pragati**, to signify that the program is intended to create an ecosystem based on integration and interoperability of all the development and welfare departments of the Government, towards the fulfilment of the Vision of Swarna Andhra Pradesh.

## 2. e-Pragati Value Proposition

In a green field State like AP, an initiative like the e-Pragati, which looks at the Government as a whole, is expected to bring about lot of benefits to the various stake holders, as described below:

- i. **e-Pragati Vision** : e-Pragati is a large Program, with a long term vision for creating a sustainable eco-system of e-Governance. The Vision of e-Pragati is stated below:

*"e-Pragati is a new paradigm in governance based on a Whole-of-Government framework, transcending the departmental boundaries. It adopts a Mission-centric approach in its design and implementation and seeks to realize the Vision of **Sunrise AP 2022**, by delivering citizen-centric services in a coordinated, integrated, efficient and equitable manner."*

- ii. **Creating Government 2.0:** In line with its Vision, e-Pragati seeks to move away from the existing systems of Governance (Government 1.0) towards establishing Government 2.0. The silo'ed and hierarchical systems will be replaced by an integrated and collaborative operating model. The single-channel, 'one-size-fits-all' models of service delivery will give way to personalized services delivered through multiple channels. The output-driven processes will be replaced by transparent, outcome-driven procedures. The citizens will no longer be passive spectators of governance and mere recipients of services, but will be empowered to be active participants in the governance process.

All these aspirations will be achieved through establishment of a common and shared digital infrastructure and applications, delivering a set of integrated and cross-cutting services based on common standards and Enterprise Principles.

### iii. Value to Government:

- a. e-Pragati shall be a catalyst for enhancing the effectiveness of implementation of various development projects and welfare schemes undertaken by the Government, through extensive use of Enterprise Project/Program/Scheme Management systems.
- b. Planning and/or monitoring of public sector schemes and projects shall take advantage of the GIS and satellite imaging technologies.
- c. There would be considerable savings to the exchequer, through a better targeting of beneficiaries, through a better control on project and scheme costs, and, through consolidation of IT Assets, like hardware, system software and applications.

- d. An all-round development of the State is achieved through alignment of e-Pragati with the goals of Sunrise AP and a clear focus on e-Pragati Indicators in each of the 7 missions.
- e. The coordination between the government departments would significantly increase due to free exchange of information via the e-Highway .
- f. e-Pragati envisages extensive use of Data Analytics tools that would throw up trends, patterns, gaps and areas of improvement in various Government schemes and also provide useful suggestions for the future actions (preventive and accelerative) through predictive analytics.

**iv. Value to Citizens and Businesses**

- a. Citizen-centric services provided by e-Pragati would enhance the convenience and transparency.
- b. The Certificate-Less Governance System (CLGS) will reduce significant burden, both on the citizens and the Government departments, by reducing/eliminating unproductive work.
- c. Programs like e-Health, e-Education, e-Agriculture and e-Market shall enhance quality of life and productivity as well as income of the citizens.
- d. Direct Benefits Transfer will ensure hassle-free availment of the various benefit programs of the Government.
- e. Widespread use of e-Office and other productivity tools will enhance, efficiency and transparency of public agencies.

**v. Value to Society:**

- a. The implementation of e-Pragati will unleash a lot of potential in the software, hardware, electronics and networking sectors. This will have a significant multiplier effect to the tune of 4 X.
- b. e-Pragati, being based on open technologies, will open up new windows for innovation and create IT and non-IT employment in various sectors.
- c. The economic development of the State will be spurred by increased productivity in all the 7 major sectors comprising the Sunrise AP Mission.

**3 e-Pragati Principles:** A large, Government-wide and cross-cutting initiative like e-Pragati cannot be implemented unless the rank and file of the various groups of stakeholders conform to a set of rigid principles, which shall be followed by all Government Departments, their Consultants, Implementing Partners and System Integrators. The e-Pragati Architectural principles are specified in **Annexure – I**.

**4. e-Pragati - alignment with 7 Missions of Sunrise AP**

In its journey towards Sunrise AP, GoAP has chosen the strategy of establishing 7 Missions, 5 Grids and 5 Campaigns. The concept of Enterprise Architecture essentially arises out of the need for large organizations to align their IT efforts along their domain functions, priorities and goals. In this context, the definition of Enterprise Architecture is given below:

***“Enterprise Architecture is a framework for conducting analysis, design, planning and implementation of the vision, goals, strategies, functions, activities and desired outcomes of an enterprise, using a holistic approach at all times, such that the IT infrastructure and IT services are always aligned to the business strategies and business services, through standardization and integration”.***

In view of such a close relationship between the concept of Enterprise Architecture and the Sunrise AP Missions, e-Pragati, shall be fully aligned to the **Vision, Goals and KPIs of Sunrise AP**. e-Pragati purports to create the IT backbone and fabric required for the successful realization Sunrise AP goals.

**5. Scope of e-Pragati:** The scope of e-Pragati extends to whole of the GoAP. The scope has been divided into logical portions in two dimensions - Phasing Dimension and Architectural Dimension, as specified below.

i. **The Phasing Dimension:** The e-Pragati initiative shall be Implemented in a phased manner, with 10 Secretariat Depts and the corresponding HoDs/Agencies in Phase I, 10 in Phase II and the remaining 13 in Phase III. While such a division into 3 phases is for operational convenience, certain foundational components of the Enterprise Architecture are designed in Phase I are applicable to all the Departments. The division of Departments into 3 phases is shown in **Annexure –II**.

e-Pragati has been designed in a manner that balances the need to create a sustainable enterprise eco-system and the need to produce quick results. This has been achieved at the design stage, by identifying a mixture of projects that would produce quick results ( "The Quick Wins") and projects that would ensure long-term sustainability.

ii. **The Architectural Dimension:** The e-Pragati Architecture consist of 4 component Architectures as specified below :

- a. **Enterprise Business Architecture:** seeks to transform the services offered by the 33 departments of the State Government. It focuses on bringing transformational benefits like citizen-centricity, certificate-less governance, multi-channel delivery, service levels and performance monitoring.
- b. **Enterprise Data Architecture:** ensures establishing certain identified **data as Single-Source-of-Truth** that is shared by all departments. Examples are **People Data, Land Data, GIS Data and Entities Data**. Enterprise Data Architecture also standardizes how data is defined, described, exchanged and propagated across the entire government machinery, thus paving the way for creating **ONE Government**.
- c. **Enterprise Application Architecture:** critically examines the existing applications and proposes new applications that, together, would deliver the enhanced functionality. It regroups them adopting the principle of "**Build Once, Use Many Times**". Common Applications, Group Applications and Cross-cutting Applications have been identified to maximize reuse and take advantage of economies of scale and derive the benefits of inter-operability.
- d. **Enterprise Technology Architecture** : derives the benefits of the latest technologies and standards and ensures that the design is future-proof. It provides a 'platform' on which data, applications and business architectures are actualized, in a secure manner.

**It shall be the endeavour of all the Departments to align their efforts along the above 4 dimensions.**

## 6. e-Pragati Portfolio of Services:

### i. Service Portfolio of 7 Missions

e-Pragati is a service-led initiative. Through an extensive interaction with all the departments in Phase I, and the related departments of Phase II and III, a master list of services being provided/ to be provided by the departments has been prepared. Sets of new services have been added deriving from game-changing technologies and game-changing processes to be introduced through e-Pragati. The portfolio includes G2C, G2B, G2G and G2E services. There are altogether over 745 e-services in Phase I.

### ii. e-Pragati Indicators(ePIs):

The successful practice of good governance depends to a large extent on the facility and regularity with which the senior functionaries and administrators can monitor the performance of the various projects and schemes. The progress is measured by the degree of achievement of Key Performance Indicators (KPIs). In the context of e-Pragati, these KPIs have been termed as **ePIs (e-Pragati Indicators)**. The 10 most significant outcome indicators for each Mission i.e 70 in all, have been identified for focus. The detailed design of e-Pragati Projects and Applications shall be aligned to creating an enabling IT environment for the measurement and realization of these 70 ePIs.

**7. e-Pragati Application Portfolio:** Implementing a transformational initiative such as e-Pragati cannot be done with a "big bang" approach, because of constraints like budget, human resources planning and dependencies. e-Pragati will therefore be implemented in a phased manner. Accordingly, an Application Portfolio has been designed in the form of packages and projects. The Projects are classified as Quick Wins, Core and Foundational Projects, Common/Group/Cross-cutting Projects and Departmental Projects. Altogether 72 Projects have been conceptualized to provide all the envisaged services.

**8. e-Pragati Implementation Plan:** A multi-pronged implementation strategy has been designed for e-Pragati, as detailed below.

**i. Centralized Planning & Decentralized Implementation:** The strategy of "**Centralized Planning and Decentralized Implementation**" is proposed for adoption to successfully meet the challenges of implementation. The preliminary design of e-Pragati has been done through a consultative process involving the departments. The core architecture would be designed in detail centrally and the e-Pragati Principles will be enforced centrally. All the core and foundational projects, which cut across the departments shall be designed and implemented by the ITE&C Department. In respect of all the other projects, a set of procurement documents, listed below, will be designed by the e-Pragati team centrally and made available to the line departments for implementation.

- a) e-Pragati Requirements Specification Document for each project, which specifies the functional and non-functional requirements, services, TO BE Processes and interfaces;
- b) A set of Model RFP Documents
- c) Reference Architectures for Data, Application and Technology.

The implementing Departments can proceed with procurement, basing on these documents, in a speedy manner.

The progress of all the projects will be monitored centrally by the Governance Structure detailed below.

**Annexure– III** shows the list of packages and projects and nodal Departments responsible for implementing the same.

- ii. **Procurement Strategy:** e-Pragati unveils a large number of opportunities that require high quality project development, implementation and management. It involves undertaking seventy two (72) projects to meet the future needs. With such a large number of projects, the need for speed and transparency in procurement, synchronized and coordinated development and adoption of multiple models of procurement / implementation models are the imperatives. The GoAP's procurement policy for e-Governance, notified in **G O Ms 12 ITE&C Department dated 8.6.2015** shall be followed to suit multitude of requirements of e-Pragati. Applicable procurement models as per the policy include: *Rate Contract of products, Empanelment of vendors, Public-Private partnerships, Swiss challenge, Government-to-Government acquisitions besides the conventional open tender process.* e-Pragati programme shall deploy all of these in a synergistic manner.
- iii. **e-Pragati Governance Structure:** To operationalize the e-Pragati Governance Structure, following process and bodies would be established:

**1. EA Governance Framework:**

ITE&C Department shall notify, a set of standards, procedures and operating protocols that guide and direct decisions around the adoption, reuse, reporting, and retirement of architecture, applications and related technologies.

**2. e-Pragati Organization:** The organization will be a cross-functional, multi-disciplinary teams, which will consist of:

- a. The Governing Council headed by Hon'ble CM and Executive council headed by Chief Secretary already constituted vide GO.Ms.24 dated: 8-12-2014 of ITE&C(Admn) dept, would monitor the progress of e-Pragati.
- b. Enterprise Architecture Design Group : A cross-organization Group to oversee the implementation of EA, already constituted through GO.Ms.No. 6 dated: 27.03.2015 of ITE&C (Portal) Department would oversee the design and strategies of e-Pragati.
- c. Enterprise Architecture Support Group: A team to oversee the architecture of key strategic initiatives already constituted through GO.Ms.No. 6 dated: 27.03.2015 of ITE&C (Portal) Department would be responsible for operational management.
- d. EA Working Group: A team of domain architects led by Lead Enterprise Architect to manage and maintain architecture work across the State. M/s Wipro technologies has already been appointed to this role.
- e. EA Extended Group: A team of consultants who will act as single point of contact (SPOC) for aligning departmental architecture with AP State Enterprise Architecture and guide departments in its implementation shall be positioned in all the major departments.

**3.Roles & Responsibilities:** Implementation of e-Pragati will need concerted efforts of a number of groups and agencies. The Table in **Annexure-IV** indicates the division of roles and responsibilities of the various stakeholders.

**9. Financial Provisions:** e-Pragati is a unique and pioneering program that seeks to bring about transformation across the Whole-of-Government. It consists of 72 individual components and projects that need to be implemented in a synchronized and coordinated manner. Each project will be developed and appraised under the overall guidance of the Governance Structure specified in para 8(iii) above. The total outlay on the 72 Projects proposed to be implemented as a part of e-Pragati is estimated to be Rs. 2398 Crores, out of which Rs. 1528 crores is to be borne by the Government of AP and the rest through appropriate PPP arrangements.

10. Government after careful examination of the matter hereby

- i. Approve the implementation of e-Pragati program, to create a State wide Enterprise Architecture for e-Governance for vertical & horizontal integration of the e-services of all the departments,
- ii. Sanction an overall budget outlay of Rs.2398 crores with a Capital Expenditure by the Government to the tune of Rs.1528 crores in a period of 2 years spread over 3 financial years, as given below, for smooth and effective implementation of ePragati project.

| Name of the Program | RE 2015-16<br>(Rs. in Crores) | BE 2016-17<br>(Rs. in Crores) | BE 2017-18<br>(Rs. in Crores) | Total<br>(Rs. in Crores) |
|---------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|
| e-Pragati           | 200                           | 600                           | 728                           | 1528                     |

- iii. Separate orders will be issued on the manner of allocation of funds and its utilization by the various Implementing agencies for implementing the 72 Projects comprising e-Pragati.

11. The ITE&C Department is directed to plan the Implementation of e-Pragati program in a time bound manner and to report the progress there on to the Council of Ministers on a monthly basis.

**(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)**

I.Y.R.KRISHNA RAO  
CHIEF SECRETARY TO GOVERNMENT

**To**

- 1.All the Special Chief Secretaries/ Principle Secretaries/Secretaries,
- 2.All the members of Governing council and Executive council e-Governance Authority
- 3.All the members of Enterprise Architecture Support Group,

**Copy to:**

1. Officer on Special Duty to CM(A)
2. PS to Chief Secretary to Government
3. PS to Advisor (eGov, Electronics & IT) to Government
4. PS to Secretary, ITE&C Dept
5. The GA(Cabinet) Department.
6. M/s Wipro – Enterprise Architecture working Group.
7. SC/SF

// FORWARDED BY ORDER //

SECTION OFFICER

**G.O.MS.No.19 Dated:28-9-2015 of ITE&C(Portal) Department**  
**Annexure I - e-Pragati Architectural Principles**

**Tenets for e-Pragati** are codified below as general propositions applicable across Government. They form the basis for making decisions on State Enterprise Architecture.

Principle #1: Uphold the Primacy of these Principles

Principle #2: Maximize benefit to the Government as a whole

Principle #3: Information Management is Everybody's Business.

Principle #4: Government is a Data Trustee and shall make efforts to maintain data correctly, consistently and securely.

Principle #5: Follow the Common Vocabulary and Data Definitions prescribed by e-Pragati.

Principle #6: Data is Shared across Government Departments.

Principle #7: Data is an Asset and has to be managed accordingly.

Principle #8: Build Applications Once , Use Many Times

Principle #9: Enterprise Architecture is Technology Independent.

Principle #10: Adopt Service Oriented Architecture at all levels.

Principle #11: Interoperability of systems shall be ensured by adopting defined standards.

Principle #12: Data Security shall be ensured by protecting it from unauthorized use and disclosure.

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**Annexure II - 3-Phase Implementation of e-Pragati across Departments**

Implementing the State Enterprise Architecture will be quite arduous, complex and time consuming, given the wide scope, breadth and depth of the Target Architecture. Implementing the APSEA can be considered to be a Program, in so far as it consists of 3 phases. The following lists down the departments to be covered in 3 phases.

**1 Phase I Departments**

| S.No. | Department                                                                                                                                                            |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Revenue                                                                                                                                                               |
| 2     | Finance                                                                                                                                                               |
| 3     | Municipal Administration and Urban Development                                                                                                                        |
| 4     | Health, Medical & Family Welfare                                                                                                                                      |
| 5     | Education <ul style="list-style-type: none"><li>• School Education</li><li>• Higher Education</li><li>• Skills Development, Entrepreneurship and Innovation</li></ul> |
| 6     | Welfare <ul style="list-style-type: none"><li>• Social Welfare</li><li>• Tribal Welfare</li><li>• Backward Classes Welfare</li><li>• Minorities Welfare</li></ul>     |
| 7     | Police                                                                                                                                                                |
| 8     | Agriculture <ul style="list-style-type: none"><li>• Agriculture &amp; Cooperation</li><li>• Animal Husbandry &amp; Fisheries</li></ul>                                |
| 9     | Civil Supplies                                                                                                                                                        |
| 10    | Industries & Commerce                                                                                                                                                 |

**2 Phase II Departments**

| S.No. | Department                             |
|-------|----------------------------------------|
| 1     | Irrigation                             |
| 2     | Transport Roads & Buildings            |
| 3     | Infrastructure                         |
| 4     | Panchayat Raj                          |
| 5     | Rural Development                      |
| 6     | Labor and Skill Development            |
| 7     | Woman and Child Development            |
| 8     | Housing                                |
| 9     | Energy                                 |
| 10    | Youth Advancement, Tourism and Culture |

**3 Phase III Departments**

| S.No. | Department                                            |
|-------|-------------------------------------------------------|
| 1     | Environment, Forests, Science and Technology          |
| 2     | General Administration                                |
| 3     | Information Technology, Electronics and Communication |
| 4     | Law                                                   |
| 5     | Planning                                              |
| 6     | Public Enterprises                                    |

**G.O.MS.No.19 Dated:28-9-2015 of ITE&C(Portal) Department**

**Annexure III - List of packages and Projects and the Nodal Departments responsible for implementing e-Pragati**

| Package No | Package Name                  | No. Apps | Application                       | Duration (m)      | Implementation Responsibility                                                                                                                                                   |
|------------|-------------------------------|----------|-----------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I          | Core Package                  | 7        | 1.People Hub                      | 9                 | <b>Primary Responsibility</b><br>ITE&C Department<br><b>Supporting Responsibility</b><br>Revenue Department                                                                     |
|            |                               |          | 2.Land Hub                        | 9                 |                                                                                                                                                                                 |
|            |                               |          | 3.CLGS                            | 12                |                                                                                                                                                                                 |
|            |                               |          | 4. Mee Seva ++ / e-Pragati Portal | 9                 |                                                                                                                                                                                 |
|            |                               |          | 5. DataLytics                     | 12                |                                                                                                                                                                                 |
|            |                               |          | 6. e-Highway                      | 12                |                                                                                                                                                                                 |
|            |                               |          | 7. App Store                      | 9                 |                                                                                                                                                                                 |
|            |                               |          |                                   | <b>9 -- 12 m</b>  |                                                                                                                                                                                 |
| II         | Performance Mangement Package | 5        | 1. e-Pathakam                     | 9                 | <b>Primary Responsibility</b><br>Planning Department<br><b>Supporting Responsibility</b><br>Investment & Infrastructure Department<br>Irrigation Department PR, R&B Departments |
|            |                               |          | 2.Project Management              | 9                 |                                                                                                                                                                                 |
|            |                               |          | 3.Works Management                | 12                |                                                                                                                                                                                 |
|            |                               |          | 4. Infrastructure Management      | 12                |                                                                                                                                                                                 |
|            |                               |          | 5.e-Dashboards                    | 9                 |                                                                                                                                                                                 |
|            |                               |          |                                   | <b>9 -- 12 m</b>  |                                                                                                                                                                                 |
| III        | Education Package             | 6        | 1.Edu Gov                         | 12                | <b>Primary Responsibility</b><br>SecondaryEducation Department<br><b>Supporting Responsibility</b><br>Higher Education, Social Welfare Department                               |
|            |                               |          | 2. e-Siksha                       | 12                |                                                                                                                                                                                 |
|            |                               |          | 3. Schools Management             | 24                |                                                                                                                                                                                 |
|            |                               |          | 4. Skills Management              | 24                |                                                                                                                                                                                 |
|            |                               |          | 5. Knowledgae Management          | 12                |                                                                                                                                                                                 |
|            |                               |          | 6. SBMS                           | 24                |                                                                                                                                                                                 |
|            |                               |          |                                   | <b>12 -- 24 m</b> |                                                                                                                                                                                 |
| IV         | Citizen Engagement Package    | 6        | 1. dial.AP                        | 9                 | <b>Primary Responsibility</b><br>ITE&C Department<br><b>Supporting Responsibility</b>                                                                                           |
|            |                               |          | 2. m-Seva                         |                   |                                                                                                                                                                                 |
|            |                               |          | 3. Mana Rashtram                  | 9                 |                                                                                                                                                                                 |
|            |                               |          | 4.Grievances Management           | 9                 |                                                                                                                                                                                 |

|      |                                  |          |                                    |                   |                                                                                                                               |
|------|----------------------------------|----------|------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|
|      |                                  |          | 5. Citizen Inbox                   | 9                 | Planning Department                                                                                                           |
|      |                                  |          | 6. State Portal                    | 9                 |                                                                                                                               |
|      |                                  |          |                                    | <b>9 -- 12 m</b>  |                                                                                                                               |
| V    | <b>Primary Sector Package</b>    | <b>7</b> | 1. Harita                          | 12                | <b>Primary Responsibility</b><br>Agriculture Department<br><b>Supporting Responsibility</b><br>Allied Sector                  |
|      |                                  |          | 2. Agri Mgt System                 | 24                |                                                                                                                               |
|      |                                  |          | 3. Fisheries Management            | 12                |                                                                                                                               |
|      |                                  |          | 4. e-Mandi                         | 24                |                                                                                                                               |
|      |                                  |          | 5. Animal Husbandry                | 24                |                                                                                                                               |
|      |                                  |          | 6. Cane Management                 | 24                |                                                                                                                               |
|      |                                  |          | 7. Smart Water Management          | 36                |                                                                                                                               |
|      |                                  |          |                                    | <b>12 -- 24 m</b> |                                                                                                                               |
| VI   | <b>Rural Development Package</b> | <b>3</b> | 1. e-Panchayat                     | 24                | <b>Primary Responsibility</b><br>Panchayat Raj Department<br><b>Supporting Responsibility</b><br>Rural Development Department |
|      |                                  |          | 2. Rural Development               | 24                |                                                                                                                               |
|      |                                  |          | 3. SHG Management                  | 9                 |                                                                                                                               |
|      |                                  |          |                                    | <b>9 -- 24 m</b>  |                                                                                                                               |
| VII  | <b>Establishment Package</b>     | <b>4</b> | 1. CFMS (includes HRMS)            | 12                | <b>Primary Responsibility</b><br>Finance Department<br><b>Supporting Responsibility</b><br>ITE&C Department                   |
|      |                                  |          | 2. HRMS                            |                   |                                                                                                                               |
|      |                                  |          | 3. e-Payment Gateway               | 12                |                                                                                                                               |
|      |                                  |          | 4. e-Procurement                   | 12                |                                                                                                                               |
|      |                                  |          | 5. e-Kacheri                       | 12                |                                                                                                                               |
|      |                                  |          |                                    | <b>12 -- 12 m</b> |                                                                                                                               |
| VIII | <b>Security Package</b>          | <b>6</b> | 1. CCTNS (Intd Law and Order Mgmt) | 24                | <b>Primary Responsibility</b><br>Police Department<br><b>Supporting Responsibility</b><br>Transport Department                |
|      |                                  |          | 2. Safe City                       | 24                |                                                                                                                               |
|      |                                  |          | 3. Smart Transportation            | 24                |                                                                                                                               |
|      |                                  |          | 4. Smart Traffic                   | 24                |                                                                                                                               |
|      |                                  |          | 5. Jails Management                | 24                |                                                                                                                               |
|      |                                  |          | 6. Emergency Management            | 24                |                                                                                                                               |

|      |                                                |           |                                         |                   |                                                                                                                                                                |
|------|------------------------------------------------|-----------|-----------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |                                                |           |                                         | <b>24 -- 24 m</b> |                                                                                                                                                                |
| IX   | <b>Industries Package</b>                      | <b>4</b>  | 1. Industry Management                  | 12                | <b>Primary Responsibility</b><br>Industries Department<br><b>Supporting Responsibility</b><br>ITE&C Department                                                 |
|      |                                                |           | 2. eBiz                                 | 12                |                                                                                                                                                                |
|      |                                                |           | 3. Advantage AP Portal                  | 9                 |                                                                                                                                                                |
|      |                                                |           | 4. Mines & Minerals Management          | 12                |                                                                                                                                                                |
|      |                                                |           |                                         | <b>9 -- 12 m</b>  |                                                                                                                                                                |
| X    | <b>Urban Package</b>                           | <b>2</b>  | 1. Municipal ERP                        | 24                | <b>Municipal Administration Department</b>                                                                                                                     |
|      |                                                |           | 2. Building Permissions                 | 12                |                                                                                                                                                                |
|      |                                                |           |                                         | <b>12 -- 24 m</b> |                                                                                                                                                                |
| XI   | <b>Health Package</b>                          | <b>3</b>  | 1. e-Health                             | 24                | <b>Health Department</b>                                                                                                                                       |
|      |                                                |           | 2. Integrated Nutrition Management      | 12                |                                                                                                                                                                |
|      |                                                |           | 3. AP Can                               |                   |                                                                                                                                                                |
|      |                                                |           |                                         | <b>12 -- 36 m</b> |                                                                                                                                                                |
| XII  | <b>Productivity Package</b>                    | <b>5</b>  | 1. e-Office                             | 24                | <b>Primary Responsibility</b><br>ITE&C Department<br><b>Supporting Responsibility</b><br>Legislature Department                                                |
|      |                                                |           | 2. e-CM                                 | 6                 |                                                                                                                                                                |
|      |                                                |           | 3. e-Cabinet                            | 9                 |                                                                                                                                                                |
|      |                                                |           | 4. e-Assembly                           | 24                |                                                                                                                                                                |
|      |                                                |           | 5. Collaboration & Virtual Office       | 24                |                                                                                                                                                                |
|      |                                                |           |                                         | <b>6 -- 24 m</b>  |                                                                                                                                                                |
| XIII | <b>Integrated IT Infrastructure Management</b> | <b>4</b>  | 1. State Data Centre                    | 24                | ITE&C Department                                                                                                                                               |
|      |                                                |           | 2. Cyber Security & IAM                 | 12                |                                                                                                                                                                |
|      |                                                |           | 3. IT Applications & Infrastructure Mgt | 12                |                                                                                                                                                                |
|      |                                                |           | 4. Local Language Interface             | 24                |                                                                                                                                                                |
|      |                                                |           |                                         | <b>12 -- 36 m</b> |                                                                                                                                                                |
| XIV  | <b>Stand-alone Applications</b>                | <b>10</b> | 1. Disaster Management                  | 24                | <b>Primary Responsibility</b><br>ITE&C Department<br><b>Supporting Responsibility</b><br>Revenue (DM) Department<br><br>Investment & Infrastructure Department |
|      |                                                |           | 2. AP FibreNet                          |                   |                                                                                                                                                                |

|  |                               |           |                           |             |                                                                                                                         |
|--|-------------------------------|-----------|---------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------|
|  |                               |           | 3. e-PDS                  |             | Civil Supplies<br>Department                                                                                            |
|  |                               |           | 4. Smart Energy           | 24          | Energy Department                                                                                                       |
|  |                               |           | 5. Commercial Taxes       | 12          | Revenue<br>(CT)Department                                                                                               |
|  |                               |           | 6. State Excise           | 24          | Revenue (Excise)<br>Department                                                                                          |
|  |                               |           | 7. CARD                   | 12          | Revenue (Reg)<br>Department                                                                                             |
|  |                               |           | 8. Temple Info<br>System  | 12          | Revenue (Endow)<br>Department                                                                                           |
|  |                               |           | 9. GIS Portal & Suite     | 24          | <b>Primary<br/>Responsibility</b><br>Planning<br>Department<br><b>Supporting<br/>Responsibility</b><br>ITE&C Department |
|  |                               |           | 10. License<br>Management | 12          |                                                                                                                         |
|  |                               |           |                           | <b>N.A.</b> |                                                                                                                         |
|  | <b>Total<br/>Applications</b> | <b>72</b> |                           |             |                                                                                                                         |

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**G.O.MS.No.19 Dated:28-9-2015 of ITE&C(Portal) Department**  
**Annexure IV (Roles and Responsibilities of Stake holders/agencies of e-Pragati)**

| SI No | Stakeholder Agency                                             | Role                                        | 1. Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------|----------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Governing Council & Executive Council of eGovernance Authority | To setup policies and frame work.           | 1. Effectively monitor the progress of ePragati over a period of 3 years i.e, total project implementation period.                                                                                                                                                                                                                                                                                                                                     |
| 2     | Enterprise Architecture Design Group (EADG)                    | Design & Monitor                            | <ol style="list-style-type: none"> <li>1. Overall Design of e-Pragati</li> <li>2. Approval of e-Pragati Requirement Specification Documents</li> <li>3. Channelization of Resources</li> <li>4. Capacity Building</li> <li>5. Execution of PoCs</li> <li>6. Monitoring progress of implementation of e-Pragati</li> <li>7. Maintenance of e-Pragati Repository</li> <li>8. Advising the Departments on technical issues referred to it.</li> </ol>     |
| 3     | Enterprise Architecture Support Group (EASG)                   | Define & Guide                              | <ol style="list-style-type: none"> <li>1. Define the Requirements for each project and approve the sets of e-Pragati Requirement Specification documents</li> <li>2. Define the Implementation Model/ Business Model for each project.</li> <li>3. Participate in the bid process management undertaken by the implementing departments.</li> <li>4. Provide technical clarifications</li> <li>5. Undertake inter-departmental coordination</li> </ol> |
| 4     | ITE&C Dept                                                     | Program Manager and Implementing Department | <ol style="list-style-type: none"> <li>1. Program manage the e-Pragati Program, through AP e-Gov Authority</li> <li>2. Implement the Core and Foundational Projects and some of the Common Applications.</li> <li>3. Provide Technical Assistance to the line departments, as needed.</li> <li>4. Coordinate the funding arrangements for the entire portfolio of projects.</li> </ol>                                                                 |

|   |                        |                         |                                                                                                                                                                                                                                                                                                                                                            |
|---|------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | Line Departments       | Implementing Department | <ol style="list-style-type: none"> <li>1. Implement the e-Pragati projects as per the scope and requirements specified by the EADG and EASG, with suitable customizations/ enhancements</li> <li>2. Undertake BPR as required</li> <li>3. Conduct Capacity Building within the Department, in association with the e-Pragati Academy (proposed)</li> </ol> |
| 6 | M/s Wipro Technologies | Program Manager         | <ol style="list-style-type: none"> <li>1. Design and develop e-Pragati Program</li> <li>2. Guide the line departments in bid process management and in implementation.</li> <li>3. Support EADG and EASG.</li> </ol>                                                                                                                                       |

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I.Y.R.KRISHNA RAO  
**CHIEF SECRETARY TO GOVERNMENT**